

Arkansas ROW CROP VERIFICATION



2022 Arkansas Cotton Research Verification Program Weekly Update – August 26, 2022

Division of Agriculture, University of Arkansas System, Cooperative Extension Service

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General Information

Pretty mild temps as we went through this week but still adding to our heat units and getting closer to defoliation. This week we did a seed count survey looking at the middle horizon of the plant and checking 1st position 5 lock bolls. We did this at 5 locations and the results were pretty uniform across the state with an average of 32.4 seeds/5 lock boll. This is a little over 12% off from what we would like to see which is counts at or above 37. This decrease is from the hotter temperatures during flowering that led to weaker pollination. This also falls in line with our seed counts from the lower horizon which was 32.1 that were taken a couple weeks ago. As we come closer to the end of this season, we need to be mindful of our heat units for both our insecticide cutoffs and our harvest aid application timing. This has been a tough year for most but we want to make sure we keep fiber quality up as high as possible.

The Extension service has a useful tool for finding out how may heat units have been accumulated with our DD60 calculator. It is very fast and easy to use. This resource can be found at <https://growdegreecalc.uada.edu/>

County	Field Name	Variety/ Planting date	Plants/A	Cutout Date / DAP to Cutout/ DD60s after cutout	Field Notes
Desha/Drew	Winchester	DP 2211 B3TXF 5-12	31,800	7-27/ 76/ 626	Last field visit on 8-24. 24-25 node cotton, 50-52" tall. Field received 1.2" of rain in the past week. The cotton is looking worn down, field has really changed colors since the last visit and is setting up nicely for defoliation. There is a little boll rot showing up in this field, <1%
Poinsett	Judd Hill (Crop Intensification)	DP 2038 B3XF 5-13	19,678	8-15*/ 94/ 149	Last field visit on 8-25. 25 node cotton, 48-50" tall. Field received .6" of rain since last week. There are TPB in this field however we are not to threshold yet. This field should reach TPB spray termination soon, Monday we will scout this field and see if we need to make an application. Node production has finally started to slow in this field. No boll rot or disease found in this field.

Poinsett	Judd Hill (Cover Crop)	DP 2038 B3XF 5-13	29,231	8-15*/ 94/ 149	Last field visit on 8-25. 25 node cotton, 46-48" tall. Field received .6" of rain since last week. Field was sprayed on 8-23 for TPB. No pest insects found on this visit. No boll rot or disease found in this field.
Poinsett	Judd Hill (Conventional till, No cover)	DP 2038 B3XF 5-13	30,759	8-15*/ 94/ 39	Last field visit on 8-25. 25 node cotton, 48-50" tall. Field received .6" of rain since last week. Field was sprayed on 8-23 for TPB. No pest insects found on this visit. No boll rot or disease found in this field.
Poinsett	Lepanto	DP 2127 B3XF 5-12	30,950	8-13/ 91/ 169	Last field visit on 8-25. 25 node cotton, 48" tall. A few TPB were found while scouting however not to threshold. Field received .6" of rain Since last week's visit. There are a few rotten bolls down at the very bottom of the plants, <1%. Target spot has shown up in this field with about 10% of leaves infected. This could end up helping us from having anymore boll rot by opening up the lower canopy.
Lee	Lee (cover)	PHY 360 W3FE 5-4	24,072	7-18/ 75/ 748	Last field visit on 8-24. 22 node cotton, 46" tall. Field received .71" of rain this week. This field is looking very tired as we are getting very close to defoliation. Field is at 15% boll open. This side of the field still has a slightly greener color than the NC side. There is some boll rot happening in this field, <1%. No disease present.
Lee	Lee (no cover)	PHY 360 W3FE 5-4	24,263	7-19/ 76/ 725	Last field visit on 8-24. 22 node cotton, 42-44" tall. Field received .71" of rain this week. This field is looking very tired as we are getting very close to defoliation. Field is at 15% boll open. There is some boll rot happening in this field, <1%. No disease present.
Demo	BCI/US Trust Protocol (cover)	DP 1646 B2XF 5-19	11,463	8-15*/ 88/ 182	Last field visit on 8-25. 24-25 node cotton, 34" tall. Field received .6" of rain since last week. This cotton has started to put on new growth since the herbicide injury and subsequent fruit shed. Very few bolls remain in the field, there are a few outer position squares as well as new growth at the terminal of the plant.
Demo	BCI/US Trust Protocol (no cover)	DP 1646 B2XF 5-19	28,658	8-15*/ 88/ 182	Last field visit on 8-25. 24-25 node cotton, 36" tall. Field received .6" of rain since last week. This cotton has started to put on new growth since the herbicide injury and subsequent fruit shed. Very few bolls remain in the field, there are a few outer position squares as well as new growth at the terminal of the plant.

Demo	ASHA (cover)	PHY 411 W3FE 5-13	9,648	8-13/ 92/ 221	Last field visit on 8-25. 23-24 node cotton, 44" tall. Field received .9" of rain since last week. TPB are just below threshold and we are about to reach out heat unit termination timing for spray applications. Node production has started to slow and the cotton is losing its lush green color. No boll rot or disease found in this field.
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